

pct/uso2/26050

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1204RXW

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003  
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,

pct/uso2/26050

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 06:50:42 ON 05 FEB 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:50:59 ON 05 FEB 2003

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2006 OR 1992 OR 2016 OR 2021 OR 2026 OR 1977 OR 1838

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506a.str

pct/uso2/26050

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> s 13

SAMPLE SEARCH INITIATED 06:51:21 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 NOT L1

=> s 13 ful

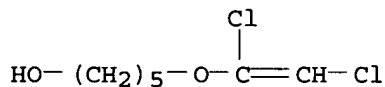
FULL SEARCH INITIATED 06:51:26 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L5 1 SEA SSS FUL L2 NOT L1

=> d scan

L5 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI)  
MF C7 H12 Cl2 O2



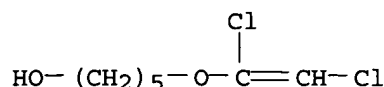
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN 329270-10-2 REGISTRY  
CN 1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C7 H12 Cl2 O2  
SR CA  
LC STN Files: CA, CAPLUS

pct/uso2/26050



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

150.23

150.44

FILE 'CAPLUS' ENTERED AT 06:52:04 ON 05 FEB 2003

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6

FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l5

L6 2 L5

=> dup rem l6

PROCESSING COMPLETED FOR L6

L7 2 DUP REM L6 (0 DUPLICATES REMOVED)

=> d 1-2 bib fhitr

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

AN 2002:256214 CAPLUS

DN 136:294541

TI Process for producing fluorinated ester compounds

IN Okazoe, Takashi; Watanabe, Kunio; Tatematsu, Shin; Yanase, Koichi; Suzuki, Yasuhiro; Shirakawa, Daisuke

PA Asahi Glass Co., Ltd., Japan

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

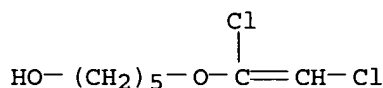
FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

-----  
 PI WO 2002026688 A1 20020404 WO 2001-JP8433 20010927  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT,  
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,  
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2001092268 A5 20020408 AU 2001-92268 20010927  
 PRAI JP 2000-295141 A 20000927  
 WO 2001-JP8433 W 20010927  
 OS CASREACT 136:294541; MARPAT 136:294541  
 IT 329270-10-2P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic  
 preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (process for producing fluorinated ester compd.)  
 RN 329270-10-2 CAPLUS  
 CN 1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

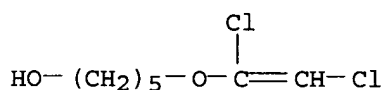
L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:167952 CAPLUS  
 DN 134:224308  
 TI Preparation of vic-dichloro acid fluoride as intermediates for preparing  
 monomers of fluoropolymers  
 IN Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;  
 Tatematsu, Shin  
 PA Asahi Glass Company, Limited, Japan  
 SO PCT Int. Appl., 66 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016085	A1	20010308	WO 2000-JP5888	20000830
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2001139509	A2	20010522	JP 2000-166773	20000602
AU 2000068660	A5	20010326	AU 2000-68660	20000830
EP 1208075	A1	20020529	EP 2000-956818	20000830
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
WO 2001094285	A1	20011213	WO 2001-JP1735	20010306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

pct/uso2/26050

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,  
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002107358 A1 20020808 US 2002-84506 20020228  
PRAI JP 1999-246154 A 19990831  
JP 2000-211722 A 20000712  
JP 2000-166773 A 20000602  
WO 2000-JP5888 W 20000830  
OS MARPAT 134:224308  
IT 329270-10-2P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
(Reactant or reagent)  
(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)  
RN 329270-10-2 CAPLUS  
CN 1-Pentanol, 5-[(1,2-dichloroethenyl)oxy]- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
7.51	157.95

FILE 'REGISTRY' ENTERED AT 06:53:39 ON 05 FEB 2003  
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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

pct/uso2/26050

=> screen 970 AND 1015

L8 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L9 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b.str

L10 STRUCTURE UPLOADED

=> que L10 AND L8 NOT L9

L11 QUE L10 AND L8 NOT L9

=> s l11

SAMPLE SEARCH INITIATED 06:54:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2399 TO ITERATE

41.7% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 45043 TO 50917  
PROJECTED ANSWERS: 6324 TO 8644

L12 50 SEA SSS SAM L10 AND L8 NOT L9

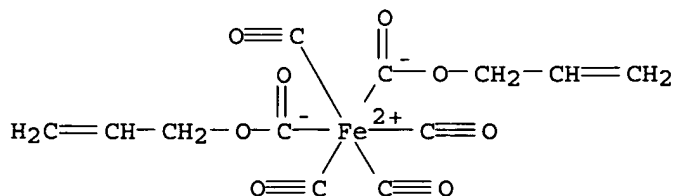
=> d scan

L12 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Iron, tetracarbonylbis[(2-propenyloxy)carbonyl]-, (OC-6-22) - (9CI)

MF C12 H10 Fe O8

CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

158.35

FILE 'STNGUIDE' ENTERED AT 06:54:23 ON 05 FEB 2003

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

pct/uso2/26050

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.18	158.53

FILE 'REGISTRY' ENTERED AT 06:56:04 ON 05 FEB 2003  
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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

L13 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838 OR 973 OR 1918 OR 2008

L14 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b.str

L15 STRUCTURE UPLOADED

=> que L15 AND L13 NOT L14

L16 QUE L15 AND L13 NOT L14

=> s l16

SAMPLE SEARCH INITIATED 06:56:18 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1698 TO ITERATE

58.9% PROCESSED	1000 ITERATIONS	50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)		
SEARCH TIME: 00.00.01		

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*



pct/uso2/26050

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 31489 TO 36431  
PROJECTED ANSWERS: 4321 TO 6273

L17 50 SEA SSS SAM L15 AND L13 NOT L14

=> d scan

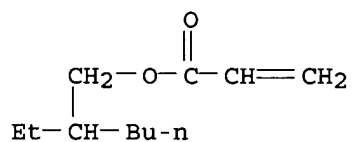
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate,  
2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenyl  
2-methyl-2-propenoate, graft (9CI)

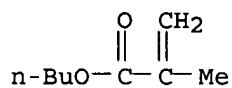
MF (C11 H20 O2 . C8 H14 O2 . C7 H10 O2 . C5 H8 O2 . C4 H6 O2)x

CI PMS, COM

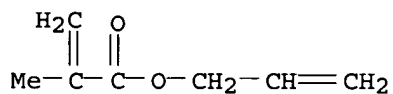
CM 1



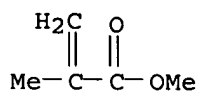
CM 2



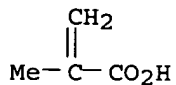
CM 3



CM 4



CM 5



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

pct/uso2/26050

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.80	159.33

FILE 'STNGUIDE' ENTERED AT 06:57:17 ON 05 FEB 2003  
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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.96	160.29

FILE 'REGISTRY' ENTERED AT 07:06:41 ON 05 FEB 2003  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> .....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

L18 SCREEN CREATED

=> screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1838

L19 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b1.str

L20 STRUCTURE UPLOADED

=> que L20 AND L18 NOT L19

L21 QUE L20 AND L18 NOT L19

pct/uso2/26050

=> s l21

SAMPLE SEARCH INITIATED 07:07:24 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS 13 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2813 TO 4427  
PROJECTED ANSWERS: 44 TO 476

L22 13 SEA SSS SAM L20 AND L18 NOT L19

=> s l21 ful

FULL SEARCH INITIATED 07:07:34 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3399 TO ITERATE

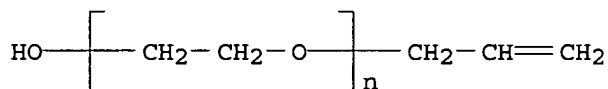
100.0% PROCESSED 3399 ITERATIONS 212 ANSWERS  
SEARCH TIME: 00.00.01

L23 212 SEA SSS FUL L20 AND L18 NOT L19

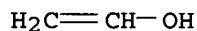
=> d scan

L23 212 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Ethenol, polymer with ethene and .alpha.-2-propenyl-.omega.-  
hydroxypoly(oxy-1,2-ethanediyl), block (9CI)  
MF ((C2 H4 O)n C3 H6 O . C2 H4 O . C2 H4)x  
CI PMS

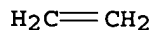
CM 1



CM 2



CM 3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l21 ful css

FULL SEARCH INITIATED 07:08:23 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3399 TO ITERATE

100.0% PROCESSED 3399 ITERATIONS 212 ANSWERS  
SEARCH TIME: 00.00.01

pct/uso2/26050

L24 212 SEA CSS FUL L20 AND L18 NOT L19

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	297.50	457.79

FILE 'STNGUIDE' ENTERED AT 07:09:56 ON 05 FEB 2003.  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jan 31, 2003 (20030131/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.18	457.97

FILE 'REGISTRY' ENTERED AT 07:11:40 ON 05 FEB 2003  
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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

L25 SCREEN CREATED

=> screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1838

L26 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b1.str

L27 STRUCTURE UPLOADED

=> que L27 AND L25 NOT L26

pct/uso2/26050

L28 QUE L27 AND L25 NOT L26

=> s l28

SAMPLE SEARCH INITIATED 07:11:56 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 65 TO ITERATE

100.0% PROCESSED 65 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 817 TO 1783  
PROJECTED ANSWERS: 1 TO 80

L29 1 SEA SSS SAM L27 AND L25 NOT L26

=> s l28 ful

FULL SEARCH INITIATED 07:12:05 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 986 TO ITERATE

100.0% PROCESSED 986 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L30 1 SEA SSS FUL L27 AND L25 NOT L26

=> d scan

L30 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 1-Propanol, 3-(3-butenyloxy) - (9CI)  
MF C7 H14 O2

$\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{CH}_2-\text{O}-(\text{CH}_2)_3-\text{OH}$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	606.52

FILE 'CAPLUS' ENTERED AT 07:12:51 ON 05 FEB 2003  
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pct/uso2/26050

FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6  
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> s 130

L31 1 L30

=> d

L31 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2001:167952 CAPLUS

DN 134:224308

TI Preparation of vic-dichloro acid fluoride as intermediates for preparing  
monomers of fluoropolymers

IN Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;  
Tatematsu, Shin

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001016085	A1	20010308	WO 2000-JP5888	20000830
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	JP 2001139509	A2	20010522	JP 2000-166773	20000602
	AU 2000068660	A5	20010326	AU 2000-68660	20000830
	EP 1208075	A1	20020529	EP 2000-956818	20000830
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
	WO 2001094285	A1	20011213	WO 2001-JP1735	20010306
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 2002107358	A1	20020808	US 2002-84506	20020228
PRAI	JP 1999-246154	A	19990831		
	JP 2000-211722	A	20000712		
	JP 2000-166773	A	20000602		
	WO 2000-JP5888	W	20000830		

OS MARPAT 134:224308

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

pct/uso2/26050

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

1.43

607.95

FILE 'REGISTRY' ENTERED AT 07:13:17 ON 05 FEB 2003

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 1015

L32 SCREEN CREATED

=> screen 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1918 OR 1838

L33 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b2.str

L34 STRUCTURE UPLOADED

=> que L34 AND L32 NOT L33

L35 QUE L34 AND L32 NOT L33

=> s l35

SAMPLE SEARCH INITIATED 07:13:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L36 0 SEA SSS SAM L34 AND L32 NOT L33

pct/uso2/26050

=> s l35 ful

FULL SEARCH INITIATED 07:13:51 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L37 1 SEA SSS FUL L34 AND L32 NOT L33

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	756.50

FILE 'CAPLUS' ENTERED AT 07:14:22 ON 05 FEB 2003  
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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6  
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l37

L38 1 L37

=> d scan

L38 1 ANSWERS CAPLUS COPYRIGHT 2003 ACS  
IC ICM C07C051-58  
ICS C07C051-60; C07C067-287; C07C059-315; C07C069-708; C07C069-63;  
C07C043-178; C07C067-14; C07C067-307  
CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes)  
Section cross-reference(s): 23, 37  
TI Preparation of vic-dichloro acid fluoride as intermediates for preparing monomers of fluoropolymers  
ST dichloro acid fluoride fluoropolymer monomer intermediate; fluorination dichloro acid fluoride prepn  
IT Acid halides  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(acid fluorides; prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)  
IT Fluorination  
(prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)  
IT Fluoropolymers, preparation  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material



pct/uso2/26050

use); PREP (Preparation); USES (Uses)

(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)

IT 69818-05-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)

(monomers of fluoropolymers prepd. from vic-dichloro acid fluoride)

IT 778-29-0P 296758-61-7P 296758-62-8P 296758-63-9P 296758-64-0P  
296758-65-1P 296758-66-2P 296758-88-8P 296758-90-2P 329270-02-2P  
329270-07-7P 329270-08-8P 329270-10-2P 329270-11-3P 329270-12-4P  
329270-13-5P 329270-14-6P 329270-15-7P 329270-16-8P

**329270-19-1P**

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
(Reactant or reagent)

(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)

IT 678-06-8P

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or  
engineered material use); PREP (Preparation); RACT (Reactant or reagent);  
USES (Uses)

(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)

IT 133587-57-2P 329270-09-9P 329270-17-9P 329270-18-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)

(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)

IT 79-01-6, reactions 98-59-9, p-Toluene sulfonyl chloride 111-29-5,  
1,5-Pentanediol 355-15-7 422-61-7 504-63-2, 1,3-Propanediol  
598-78-7 627-27-0, 3-Buten-1-ol 2062-98-8 38300-63-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of vic-dichloro acid fluoride as intermediates for prepg.  
monomers of fluoropolymers)

ALL ANSWERS HAVE BEEN SCANNED

=> d

L38 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2001:167952 CAPLUS

DN 134:224308

TI Preparation of vic-dichloro acid fluoride as intermediates for preparing  
monomers of fluoropolymers

IN Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;  
Tatematsu, Shin

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001016085	A1	20010308	WO 2000-JP5888	20000830
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,			

pct/uso2/26050

CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
JP 2001139509 A2 20010522 JP 2000-166773 20000602  
AU 2000068660 A5 20010326 AU 2000-68660 20000830  
EP 1208075 A1 20020529 EP 2000-956818 20000830  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL  
WO 2001094285 A1 20011213 WO 2001-JP1735 20010306  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,  
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 2002107358 A1 20020808 US 2002-84506 20020228  
PRAI JP 1999-246154 A 19990831  
JP 2000-211722 A 20000712  
JP 2000-166773 A 20000602  
WO 2000-JP5888 W 20000830  
OS MARPAT 134:224308  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.43

757.93

FILE 'REGISTRY' ENTERED AT 07:14:52 ON 05 FEB 2003

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DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963 AND 970 AND 1015

L39 SCREEN CREATED

pct/uso2/26050

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L40 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506b3.str

L41 STRUCTURE UPLOADED

=> que L41 AND L39 NOT L40

L42 QUE L41 AND L39 NOT L40

=> s l42 ful

FULL SEARCH INITIATED 07:15:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L43 1 SEA SSS FUL L41 AND L39 NOT L40

=> .....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2009 OR 2021 OR 2026 OR 1838

L44 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506c.str

L45 STRUCTURE UPLOADED

=> que L45 NOT L44

L46 QUE L45 NOT L44

=> s l46 ful

FULL SEARCH INITIATED 07:15:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L47 0 SEA SSS FUL L45 NOT L44

=> .....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L48 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506d.str

L49 STRUCTURE UPLOADED

pct/uso2/26050

=> que L49 NOT L48

L50 QUE L49 NOT L48

=> s l50 ful

FULL SEARCH INITIATED 07:16:43 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L51 0 SEA SSS FUL L49 NOT L48

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1083

L52 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L53 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506e.str

L54 STRUCTURE UPLOADED

=> que L54 AND L52 NOT L53

L55 QUE L54 AND L52 NOT L53

=> s l55 ful

FULL SEARCH INITIATED 07:17:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L56 0 SEA SSS FUL L54 AND L52 NOT L53

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L57 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506f.str

L58 STRUCTURE UPLOADED

=> que L58 NOT L57

L59 QUE L58 NOT L57

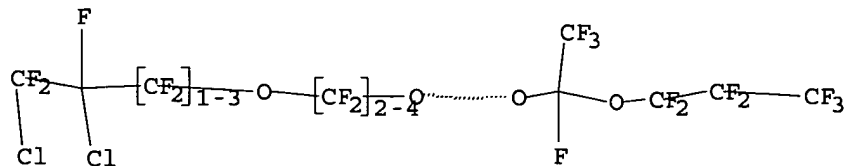
=> d

pct/uso2/26050

L59 HAS NO ANSWERS

L57 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L58 STR



Structure attributes must be viewed using STN Express query preparation.

L59 QUE L58 NOT L57

=> s l59 ful

FULL SEARCH INITIATED 07:18:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L60 0 SEA SSS FUL L58 NOT L57

=> .....Testing the current file..... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L61 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\084506g.str

L62 STRUCTURE UPLOADED

=> que L62 NOT L61

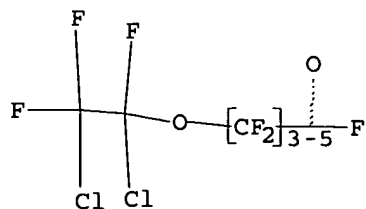
L63 QUE L62 NOT L61

=> d

L63 HAS NO ANSWERS

L61 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L62 STR



Structure attributes must be viewed using STN Express query preparation.

L63 QUE L62 NOT L61

pct/uso2/26050

=> d l63 ful

L63 HAS NO ANSWERS

'FUL' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)

SIM ----- Structure Image.

SAT ----- Structure ATtributes and map table if it contains data.

SCT ----- Structure Connection Table and map table if it contains data.

SDA ----- All Structure Data (image, attributes, connection table and map table if it contains data).

NOS ----- NO Structure data.

ENTER STRUCTURE FORMAT (SIA), SCT, SDA, SIM, SAT, NOS:end

=> s l63 ful

FULL SEARCH INITIATED 07:19:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 34 TO ITERATE

100.0% PROCESSED 34 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

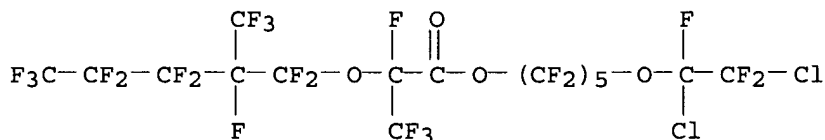
L64 3 SEA SSS FUL L62 NOT L61

=> d scan

L64 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Propanoic acid, 2-[[1,1,2,3,3,4,4,5,5,5-decafluoro-2-(trifluoromethyl)pentyl]oxy]-2,3,3,3-tetrafluoro-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI)

MF C16 Cl2 F30 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

889.70

1647.63

FILE 'CAPLUS' ENTERED AT 07:19:50 ON 05 FEB 2003

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pct/uso2/26050

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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6  
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l64

L65 3 L64

=> dup rem l65

PROCESSING COMPLETED FOR L65

L66 3 DUP REM L65 (0 DUPLICATES REMOVED)

=> d 1-3 bib fhitr

L66 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2002:256214 CAPLUS

DN 136:294541

TI Process for producing fluorinated ester compounds

IN Okazoe, Takashi; Watanabe, Kunio; Tatematsu, Shin; Yanase, Koichi; Suzuki, Yasuhiro; Shirakawa, Daisuke

PA Asahi Glass Co., Ltd., Japan

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002026688	A1	20020404	WO 2001-JP8433	20010927
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

AU 2001092268 A5 20020408 AU 2001-92268 20010927

PRAI JP 2000-295141 A 20000927

WO 2001-JP8433 W 20010927

OS CASREACT 136:294541; MARPAT 136:294541

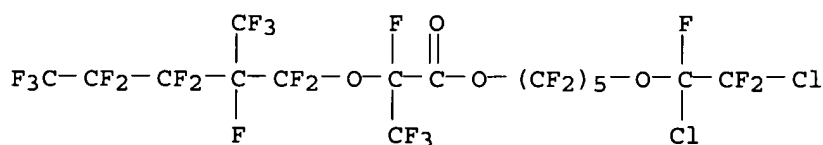
IT 407634-48-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for producing fluorinated ester compd.)

RN 407634-48-4 CAPLUS

CN Propanoic acid, 2-[[[1,1,2,3,3,4,4,5,5,5-decafluoro-2-(trifluoromethyl)pentyl]oxy]-2,3,3,3-tetrafluoro-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI) (CA INDEX NAME)



RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L66 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2001:167952 CAPLUS

DN 134:224308

TI Preparation of vic-dichloro acid fluoride as intermediates for preparing monomers of fluoropolymers

IN Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke; Tatematsu, Shin

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001016085	A1	20010308	WO 2000-JP5888	20000830
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2001139509	A2	20010522	JP 2000-166773	20000602
	AU 2000068660	A5	20010326	AU 2000-68660	20000830
	EP 1208075	A1	20020529	EP 2000-956818	20000830
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	WO 2001094285	A1	20011213	WO 2001-JP1735	20010306
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002107358	A1	20020808	US 2002-84506	20020228
PRAI	JP 1999-246154	A	19990831		
	JP 2000-211722	A	20000712		
	JP 2000-166773	A	20000602		
	WO 2000-JP5888	W	20000830		

OS MARPAT 134:224308

IT 329270-12-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

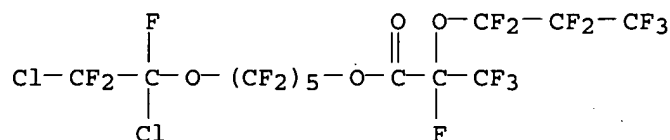
(prepn. of vic-dichloro acid fluoride as intermediates for prepg. monomers of fluoropolymers)

RN 329270-12-4 CAPLUS



pct/uso2/26050

CN Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-1,1,2,2,3,3,4,4,5,5-decafluoropentyl ester (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L66 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1991:206552 CAPLUS

DN 114:206552

TI Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for perfluoro(vinyl 3-butenyl ether)

IN Oharu, Kazuya; Kaneko, Isamu

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02311438	A2	19901227	JP 1989-128681	19890524
	JP 2701454	B2	19980121		
PRAI	JP 1989-128681		19890524		

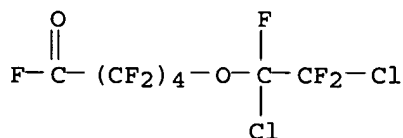
OS MARPAT 114:206552

IT 133587-57-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(thermal decompn. of, dichlorotrifluoroethyl perfluorobutenyl ether from)

RN 133587-57-2 CAPLUS

CN Pentanoyl fluoride, 5-(1,2-dichloro-1,2,2-trifluoroethoxy)-2,2,3,3,4,4,5,5-octafluoro- (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

11.06

1658.69

FILE 'REGISTRY' ENTERED AT 07:22:30 ON 05 FEB 2003

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7  
DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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ENTER SCREEN EXPRESSION OR (END):end

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L68 STRUCTURE UPLOADED

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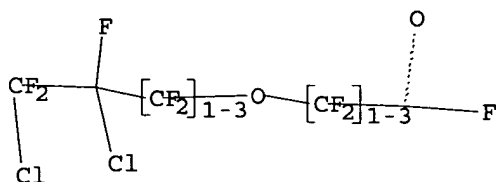
L69 QUE L68 NOT L67

=> d

L69 HAS NO ANSWERS

L67 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L68 STR



Structure attributes must be viewed using STN Express query preparation.

L69 QUE L68 NOT L67

=> s l69

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SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 0 TO 0

pct/uso2/26050

L70 0 SEA SSS SAM L68 NOT L67

=> s l69 ful

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FULL SCREEN SEARCH COMPLETED - 67 TO ITERATE

100.0% PROCESSED 67 ITERATIONS 5 ANSWERS  
SEARCH TIME: 00.00.01

L71 5 SEA SSS FUL L68 NOT L67

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.15	1806.84

FILE 'CAPLUS' ENTERED AT 07:23:21 ON 05 FEB 2003  
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FILE COVERS 1907 - 5 Feb 2003 VOL 138 ISS 6  
FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l71

L72 3 L71

=> d 1-3 bib fhitr

L72 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2001:472639 CAPLUS

DN 135:78102

TI Manufacture of fluorine-containing allyl ethers and higher homologs

IN Schulz, Jay F.; Moore, George G. I.; Schwertfeger, Werner; Hintzer, Klaus; Qiu, Zai-Ming; Guerra, Miguel A.; Hare, Erik D.; Worm, Allan T.

PA Dyneon LLC, USA

SO PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DT Patent

LA English

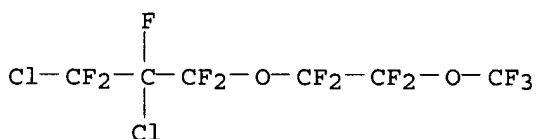
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001046108	A1	20010628	WO 2000-US13116	20000512

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pct/uso2/26050

KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT,  
TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 6255535 B1 20010703 US 1999-470034 19991222  
EP 1240126 A1 20020918 EP 2000-928975 20000512  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL  
PRAI US 1999-470034 A 19991222  
WO 2000-US13116 W 20000512  
OS MARPAT 135:78102  
IT 346671-28-1P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
(Reactant or reagent)  
(manuf. of fluorine-contg. allyl ethers and higher homologs)  
RN 346671-28-1 CAPLUS  
CN Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-  
(trifluoromethoxy)ethoxy]- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L72 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:167952 CAPLUS  
DN 134:224308  
TI Preparation of vic-dichloro acid fluoride as intermediates for preparing  
monomers of fluoropolymers  
IN Okazoe, Takashi; Watanabe, Kunio; Ito, Masahiro; Shirakawa, Daisuke;  
Tatematsu, Shin  
PA Asahi Glass Company, Limited, Japan  
SO PCT Int. Appl., 66 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001016085	A1	20010308	WO 2000-JP5888	20000830
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,				
	CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2001139509	A2	20010522	JP 2000-166773	20000602
	AU 2000068660	A5	20010326	AU 2000-68660	20000830
	EP 1208075	A1	20020529	EP 2000-956818	20000830
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL				
	WO 2001094285	A1	20011213	WO 2001-JP1735	20010306

pct/uso2/26050

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CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,  
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002107358 A1 20020808 US 2002-84506 20020228

PRAI JP 1999-246154 A 19990831  
JP 2000-211722 A 20000712  
JP 2000-166773 A 20000602  
WO 2000-JP5888 W 20000830

OS MARPAT 134:224308

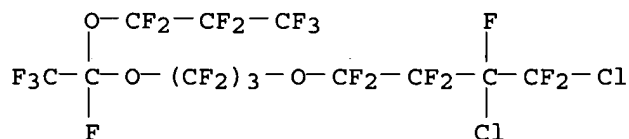
IT 329270-16-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
(Reactant or reagent)

(prepn. of vic-dichloro acid fluoride as intermediates for prep.  
monomers of fluoropolymers)

RN 329270-16-8 CAPLUS

CN Butane, 1,2-dichloro-1,1,2,3,3,4,4-heptafluoro-4-[1,1,2,2,3,3-hexafluoro-3-  
[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethoxy]propoxy]- (9CI) (CA  
INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L72 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1997:576767 CAPLUS

DN 127:220385

TI Process for making dihalodifluoromethanes and their homologues from  
perfluorinated epoxides and dihalogens

IN Yang, Zhen-yu

PA E.I. Du Pont De Nemours and Co., USA; Yang, Zhen-Yu

SO PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

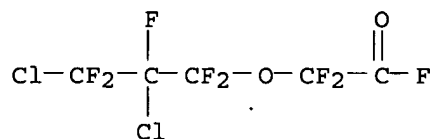
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9730957	A1	19970828	WO 1997-US1584	19970206
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 877724	A1	19981118	EP 1997-904142	19970206
	EP 877724	B1	20010613		
	R: DE, FR, GB, IT				
	JP 2000505082	T2	20000425	JP 1997-530168	19970206
	US 6002055	A	19991214	US 1998-125465	19980819
PRAI	US 1996-12160P	P	19960223		
	WO 1997-US1584	W	19970206		
OS	CASREACT 127:220385; MARPAT 127:220385				
IT	194983-27-2P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				

pct/uso2/26050

(process for making dihalodifluoromethanes and their homologues from perfluorinated epoxides and dihalogens)

RN 194983-27-2 CAPLUS

CN Acetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-  
(9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.64

1817.48

FILE 'REGISTRY' ENTERED AT 07:24:53 ON 05 FEB 2003

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STRUCTURE FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L71 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2003 ACS

RN 346671-35-0 REGISTRY

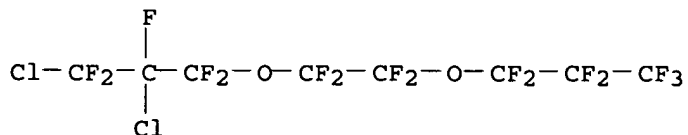
CN Propane, 1-[2-(2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)-1,1,2,2-tetrafluoroethoxy]-1,1,2,2,3,3,3-heptafluoro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C8 Cl2 F16 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

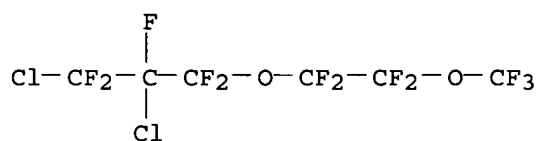


pct/uso2/26050

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

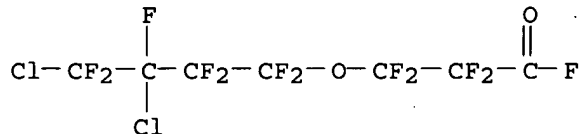
L71 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 346671-28-1 REGISTRY  
CN Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-(trifluoromethoxy)ethoxy]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C6 Cl2 F12 O2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 329270-17-9 REGISTRY  
CN Propanoyl fluoride, 3-(3,4-dichloro-1,1,2,2,3,4,4-heptafluorobutoxy)-2,2,3,3-tetrafluoro- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C7 Cl2 F12 O2  
SR CA  
LC STN Files: CA, CAPLUS

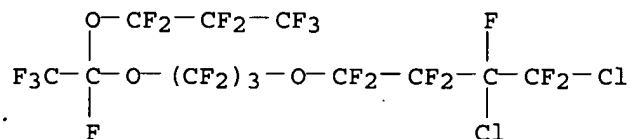


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 329270-16-8 REGISTRY  
CN Butane, 1,2-dichloro-1,1,2,3,3,4,4-heptafluoro-4-[1,1,2,2,3,3-hexafluoro-3-[1,2,2,2-tetrafluoro-1-(heptafluoropropoxy)ethoxy]propoxy]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C12 Cl2 F24 O3  
SR CA  
LC STN Files: CA, CAPLUS

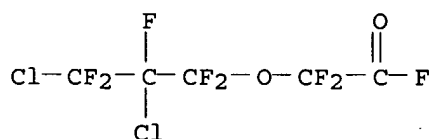
pct/uso2/26050



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L71 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2003 ACS  
RN 194983-27-2 REGISTRY  
CN Acetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-  
(9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C5 Cl2 F8 O2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file uspatful

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
9.20	1826.68

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 07:26:11 ON 05 FEB 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Feb 2003 (20030204/PD)

FILE LAST UPDATED: 4 Feb 2003 (20030204/ED)

HIGHEST GRANTED PATENT NUMBER: US6516468

HIGHEST APPLICATION PUBLICATION NUMBER: US2003024026

CA INDEXING IS CURRENT THROUGH 4 Feb 2003 (20030204/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Feb 2003 (20030204/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2002

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<  
>>> original, i.e., the earliest published granted patents or <<<  
>>> applications. USPAT2 contains full text of the latest US <<<  
>>> publications, starting in 2001, for the inventions covered in <<<  
>>> USPATFULL. A USPATFULL record contains not only the original <<<  
>>> published document but also a list of any subsequent <<<  
>>> publications. The publication number, patent kind code, and <<<  
>>> publication date for all the US publications for an invention <<<  
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<



pct/uso2/26050

>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

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>>> through the new cluster USPATALL. Type FILE USPATALL to <<<  
>>> enter this cluster. <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<  
>>> classifications, or claims, that may potentially change from <<<  
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> s l71

L73 2 L71

=> d 1-2 bib fhitr

L73 ANSWER 1 OF 2 USPATFULL

AN 2001:103044 USPATFULL

TI Fluorine containing allylethers and higher homologs

IN Schulz, Jay F., Eagan, MN, United States

Moore, George G. I., Afton, MN, United States

Schwertfeger, Werner, Bavaria, Germany, Federal Republic of

Hintzer, Klaus, Woodbury, MN, United States

Qiu, Zai-Ming, Woodbury, MN, United States

Guerra, Miguel A., Woodbury, MN, United States

Hare, Erik D., St. Paul, MN, United States

Worm, Allan T., N. St. Paul, MN, United States

PA Dyneon LLC, Oakdale, MN, United States (U.S. corporation)

3M Innovative Properties Company, St. Paul, MN, United States (U.S.  
corporation)

PI US 6255535 B1 20010703

AI US 1999-470034 19991222 (9)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Shippen, Michael L.

LREP Lilly, James V.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 370

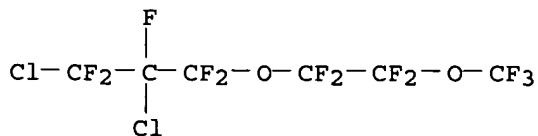
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 346671-28-1P

(manuf. of fluorine-contg. allyl ethers and higher homologs)

RN 346671-28-1 USPATFULL

CN Propane, 1,2-dichloro-1,1,2,3,3-pentafluoro-3-[1,1,2,2-tetrafluoro-2-  
(trifluoromethoxy)ethoxy]- (9CI) (CA INDEX NAME)



L73 ANSWER 2 OF 2 USPATFULL

AN 1999:163910 USPATFULL

TI Process for making dihalodifluoromethanes and their homologues

IN Yang, Zhen-Yu, Wilmington, DE, United States

pct/uso2/26050

PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States  
(U.S. corporation)

PI US 6002055 19991214

WO 9730957 19970828

AI US 1998-125465 19980819 (9)

WO 1997-US1584 19970206

19980819 PCT 371 date

19980819 PCT 102(e) date

PRAI US 1996-12160P 19960223 (60)

DT Utility

FS Granted

EXNAM Primary Examiner: Siegel, Alan

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 486

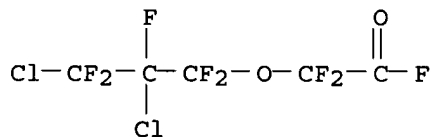
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 194983-27-2P

(process for making dihalodifluoromethanes and their homologues from  
perfluorinated epoxides and dihalogens)

RN 194983-27-2 USPATFULL

CN Acetyl fluoride, (2,3-dichloro-1,1,2,3,3-pentafluoropropoxy)difluoro-  
(9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

16.16

1842.84

STN INTERNATIONAL LOGOFF AT 07:30:01 ON 05 FEB 2003

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NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
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NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,

pct/uso2/26050

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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=> file patent

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FILE 'USPAT2' ENTERED AT 07:31:24 ON 05 FEB 2003  
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FILE 'WPIDS' ENTERED AT 07:31:24 ON 05 FEB 2003  
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> fsearch jp02311438/pn

SEA JP02311438/PN

24 FILES SEARCHED...

L1 5 JP02311438/PN

pct/uso2/26050

FSE

\*\*\* ITERATION 1 \*\*\*

SET SMARTSELECT ON  
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF  
SET COMMAND COMPLETED

SEL L1 1- PN,APPS  
L2 SEL L1 1- PN APPS : 4 TERMS

SEA L2  
'APPS' IS NOT A VALID FIELD CODE  
'APPS' IS NOT A VALID FIELD CODE  
L3 5 L2

DEL L3- Y  
FSORT L1  
L3 5 FSO L1

1 Multi-record Family      Answers 1-5  
0 Individual Records  
0 Non-patent Records

SET SMARTSELECT OFF  
SET COMMAND COMPLETED

SET HIGHLIGHTING DEF  
SET COMMAND COMPLETED

=> d 1-5 ti

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS FAMILY 1  
TI Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for  
perfluoro(vinyl 3-butenyl ether)

L3 ANSWER 2 OF 5 DPCI (C) 2003 THOMSON DERWENT FAMILY 1  
TI 1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using  
precursors with monomers having two double bonds of different reactivity.

L3 ANSWER 3 OF 5 INPADOE COPYRIGHT 2003 EPO FAMILY DUPLICATE 1

L3 ANSWER 4 OF 5 JAPIO COPYRIGHT 2003 JPO FAMILY 1  
TI NOVEL FLUORINE-CONTAINING COMPOUND, ITS PRODUCTION AND USE

L3 ANSWER 5 OF 5 WPIDS (C) 2003 THOMSON DERWENT FAMILY 1  
TI 1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using  
precursors with monomers having two double bonds of different reactivity.

=> d 1-5 all

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS FAMILY 1  
AN 1991:206552 CAPLUS  
DN 114:206552  
TI Preparation of perhalo(ethyl 3-butenyl ethers) as intermediates for  
perfluoro(vinyl 3-butenyl ether)  
IN Oharu, Kazuya; Kaneko, Isamu  
PA Asahi Glass Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DT Patent

pct/uso2/26050

LA Japanese

IC ICM C07C043-17

ICS C07C041-22; C07C041-24

CC 23-3 (Aliphatic Compounds)

Section cross-reference(s): 35

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02311438	A2	19901227	JP 1989-128681	19890524 <--
	JP 2701454	B2	19980121		
PRAI	JP 1989-128681		19890524		
OS	MARPAT 114:206552				
AB	CF2XCFYOCF2CF2CF:CF2 (I; X, Y = halo other than F), a process for the prepn. of I by thermal decompn. of CF2XCFYO(CF2)4COZ (II; Z = F, OM; M = K, Na), and a process for the prepn. of CF2:CFOCF2CF2CF:CF2 (III), useful as a monomer, by treatment of I with dehalogenating agents, e.g. Zn, are claimed. II (Z = ONa) was heated at 260.degree. under a decreased pressure for 8 h to give 95% I (X = Y = Cl), which was gradually added dropwise to Zn in 1,4-dioxane at 90.degree. and the reaction mixt. was further refluxed for 6 h to give 62% III.				
ST	fluorodichloroethyl perfluorobutenyl ether dechlorination; fluorovinyl fluorobutenyl ether prepn monomer; fluorodichloroethoxypentanoyl fluoride thermal decompn; fluorodichloroethoxypentanoate salt thermal decompn				
IT	Monomers				
	RL: RCT (Reactant); RACT (Reactant or reagent)				
	(fluoro, perfluoro(vinyl butenyl ether))				
IT	133587-59-4P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(prepn. and dechlorination of, vinyl ether from)				
IT	69818-05-9P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of, as monomer)				
IT	133587-57-2 133587-58-3 133601-00-0				
	RL: RCT (Reactant); RACT (Reactant or reagent)				
	(thermal decompn. of, dichlorotrifluoroethyl perfluorobutenyl ether from)				

L3 ANSWER 2 OF 5 DPCI (C) 2003 THOMSON DERWENT FAMILY 1

AN 1991-053484 [08] DPCI

DNC C1991-022640

TI 1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using precursors with monomers having two double bonds of different reactivity.

DC A41 E16

PA (ASAG) ASAHI GLASS CO LTD

CYC 1

PI JP 02311438 A 19901227 (199108)\* 3p <--

JP 2701454 B2 19980121 (199808) 3p C07C043-17

ADT JP 02311438 A JP 1989-128681 19890524; JP 2701454 B2 JP 1989-128681 19890524

FDT JP 2701454 B2 Previous Publ. JP 02311438

PRAI JP 1989-128681 19890524

IC C07C041-22; C07C043-17

ICM C07C043-17

ICS C07C041-18; C07C041-22; C07C041-24

FS CPI

#### CTCS CITATION COUNTERS

PNC.DI	0	Cited Patents Count (by inventor)
PNC.DX	0	Cited Patents Count (by examiner)
IAC.DI	0	Cited Issuing Authority Count (by inventor)
IAC.DX	0	Cited Issuing Authority Count (by examiner)

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PNC.GI	0	Citing Patents Count (by inventor)
PNC.GX	1	Citing Patents Count (by examiner)
IAC.GI	0	Citing Issuing Authority Count (by inventor)
IAC.GX	1	Citing Issuing Authority Count (by examiner)
CRC.I	0	Cited Literature References Count (by inventor)
CRC.X	0	Cited Literature References Count (by examiner)

CGP CITING PATENTS UPG: 19961219

Cited by Examiner

CITED PATENT	CAT	CITING PATENT	ACCNO
JP 2311438	A	US 5557010	A 1996-433040/43
		PA: (DOWC) DOW CHEM CO	
		IN: DARST, K P; EZZELL, B R; ISHIBE, N	

L3 ANSWER 3 OF 5 INPADOC COPYRIGHT 2003 EPO DUPLICATE 1

LEVEL 2

AN 61186805 INPADOC EW 199811 UW 199811  
DT Patent  
PIT JPB2 PUBLISHED REGISTERED PATENT SPECIFICATION  
PI JP 2701454B B2 19980121  
AI JP 1989-128681 A 19890524  
PRAI JP 1989-128681 A 19890524  
ICM (6) C07C043-17  
ICS (6) C07C041-18; (6) C07C041-24

L3 ANSWER 4 OF 5 JAPIO COPYRIGHT 2003 JPO 1  
AN 1990-311438 JAPIO  
TI NOVEL FLUORINE-CONTAINING COMPOUND, ITS PRODUCTION AND USE  
IN OHARU KAZUYA; KANEKO ISAMU  
PA ASAHI GLASS CO LTD  
PI JP 02311438 A 19901227 Heisei  
AI JP 1989-128681 (JP01128681 Heisei) 19890524  
PRAI JP 1989-128681 19890524  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990  
IC ICM C07C043-17  
ICS C07C041-22; C07C041-24  
AB NEW MATERIAL: A compound of formula I (X and Y are each halogen except F).  
EXAMPLE: 1,2 dichloro-1,1,2,4,4,5,5,6,7,7-decafluoro-3-oxa-heptene.  
USE: Useful as a precursor of a monomer having two kinds of double bond  
differing in reactivity from each other.  
PREPARATION: The objective compound of the formula I can be obtained by  
thermal decomposition of a compound of formula II (Z is F or OM; M is K or  
Na). Specifically, perfluoroglutaryl fluoride is reacted with  
hexafluoropropylene oxide followed by vapor pyrolysis to make a partial  
thermal decomposition to form a compound of formula III. The double bond  
in this compound is then protected with a halogen followed by further  
thermal decomposition, thus obtaining the objective compound of the  
formula I.  
COPYRIGHT: (C)1990, JPO&Japio

L3 ANSWER 5 OF 5 WPIDS (C) 2003 THOMSON DERWENT FAMILY 1  
AN 1991-053484 [08] WPIDS  
DNC C1991-022640  
TI 1,2-di halo-1,1,2,4,4,5,5,6,7,7-deca fluoro-3-oxa-6-heptene prepn. - using  
precursors with monomers having two double bonds of different reactivity.



pct/uso2/26050

DC A41 E16  
PA (ASAG) ASAHI GLASS CO LTD  
CYC 1  
PI JP 02311438 A 19901227 (199108)\* 3p <--  
JP 2701454 B2 19980121 (199808) 3p C07C043-17  
ADT JP 02311438 A JP 1989-128681 19890524; JP 2701454 B2 JP 1989-128681  
19890524  
FDT JP 2701454 B2 Previous Publ. JP 02311438  
PRAI JP 1989-128681 19890524  
IC C07C041-22; C07C043-17  
ICM C07C043-17  
ICS C07C041-18; C07C041-22; C07C041-24  
AB JP 02311438 A UPAB: 19930928  
Fluorine cpds. of formula (I), their prepn. and cpd. (II) prepn. using (I)  
are new.  
 $\text{CF}_2\text{XCFYOCF}_2\text{CF}_2\text{CF}=\text{CF}_2$  (I)  
 $\text{CF}_2=\text{CFOCF}_2\text{CF}_2\text{CF}=\text{CF}_2$  (II)  
X, Y = Cl, Br, I.  
USE/ADVANTAGE - (I) are useful as precursors for (II), monomer having  
two double bonds of mutually different reactivities. (II) can be produced  
from (I) in high purities without formation of isomer of formula  
 $\text{CF}_2=\text{CFOCF}_2\text{CF}=\text{CFCF}_3$   
(I) are prepd. by thermally decomposing cpds. of  
 $\text{CF}_2\text{XCFYOCF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{C}(=\text{O})\text{Z}$   
(Z=F, OM(M=K, Na))  
When Z = F, decompositodecomposition is performed at 400-550 deg.C in  
gaseous phase. When Z = OM, reaction temp. is 150-300, (200-280) deg.C.  
Raw materials are obtd. from perfluoroglutaryl fluoride. (II) is prepd. by  
reacting (I) with dehalogenating agents such as zinc in polar solvent e.g.  
diglyme, 1,4-dioxane, methanol, etc. Use amt. molar ratio of  
dehalogenating agent is 2-6, (3-4) -fold to (I). Reaction temp. is 20-150  
(30-100) deg.C.  
0/0  
FS CPI  
FA AB; DCN  
MC CPI: A01-C; A01-D11; A01-D12; E10-H01C

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	60.23	60.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

STN INTERNATIONAL LOGOFF AT 07:34:02 ON 05 FEB 2003